PATENT
Microsoft Docket No. 301911.01
L&H No. MCS-034-03

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of   : Group Art Unit: 2621
Jojic et al.   :
                              :
Entitled: SYSTEM AND METHOD FOR : Examiner: Unknown
FAST ON-LINE LEARNING OF   :
TRANSFORMED HIDDEN MARKOV   :
MODELS   :
                              :
                              :
                              :
Serial No.: 10/649,382   :
                              :
Filing Date: August 27, 2003 :

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97(b)

Commissioner of Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Attached hereto is Form PTO-1449 listing documents believed relevant to the subject application. It is respectfully requested that these documents be made of record and an initialed copy of each form be returned to the undersigned.

This disclosure statement should not be construed as a representation that a search has been made or that no other material information as defined in 37 CFR 1.56(a) exists. Furthermore, no admission is being made that these documents are prior art, and applicant reserves the right to challenge any such conclusion.
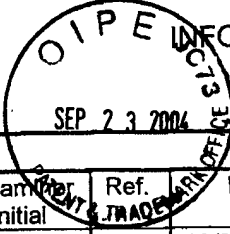
It is believed that this disclosure complies with the requirements of 37 CFR 1.56, 1.97, and 1.98, and the manual of Patent Examining Procedures, section 609 and 707.05. If for some reason the Examiner considers otherwise, it is respectfully requested that the undersigned be called so that any deficiencies can be remedied.

A copy of each document is enclosed unless indicated otherwise. Some of the documents may have markings on them. No significance is meant to be attached to the markings. These documents are not necessarily analogous art.

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Respectfully submitted

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In place of Form PTO-1449

		DOCKET NO.: MCS-034-03	SERIAL NO.: 10/649,382

INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)

OIPE SEP 23 2004

	INVENTOR: Jojic et al.	
	FILING DATE: August 27, 2003	GROUP: 2621

U.S. PATENT DOCUMENTS

*Examiner Initial	Ref.	Document Number	Date	Name	Class	Subclass	Filing Date (If Appropriate)
	A1	10/294,211		Jojic et al.			11/14/2002

FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation Yes	No

OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*

	A2	Bauer, E., D. Coller and Y. Singer, Update rules for parameter estimation in Bayesian networks, *Proc. of the 13th UAI*, Providence, Rhode Island, August 1-3, 1997, pp. 3-13.
	A3	Black, M. J., and D. J. Fleet, Probabilistic detection and tracking of motion discontinuities, *Int'l. J. on Comp. Vision*, 2000.
	A4	Frey, B., and N. Jojic, Fast, large-scale transformation-invariant clustering, *Advances in Neural Information Processing Systems*, (NIPS 2001), 14, Cambridge, MA, MIT Press 2002.
	A5	Frey, B., and N. Jojic, Estimating mixture models of images and inferring spatial transformations using the EM algorithm, *Comp. Vision and Pattern Recognition (CVPR)*, Fort Collins, June 23-25, 1999, pp. 416-422.
	A6	Jepson, A., and M. J. Black, Mixture models for optical flow computation, *Proc. of the IEEE Conf. on Comp. Vision and Pattern Recognition*, June 1993, pp. 760-761.
	A7	Jojic, N., and B. Frey, Learning flexible sprites in video layers, *IEEE Conf. on Comp. Vision and Pattern Recognition (CVPR)*, 2001.
	A8	Jojic, N., N. Petrovic, B. Frey and T. Huang, Transformed hidden Markov models: Estimating mixture models and inferring spatial transformations in video sequences, *IEEE Conf. on Comp. Vision and Pattern Recognition (CVPR)*, 2000.
	A9	Neal, R. M., and G. E. Hinton, A view of the EM algorithm that justifies incremental, sparse and other variants, *Learning in Graphical Models*, Kluwer Academic Publishers, Norwell MA, 1998, Ed. M. I. Jordan, pp. 355-368.
	A10	Tao, H., R. Kumar and H. S. Sawhney, Dynamic layer representation with applications to tracking, *Proc. of the IEEE Conf. on Comp. Vision and Pattern Recognition*, 2000.
	A11	Torr, P., R. Szeliski, and P. Anandan, An integrated Bayesian approach to layer extraction from image sequences, *IEEE Trans. on Pattern Analysis and Mach. Intelligence*, 2001, vol. 23, no. 3, pp. 297-303.
	A12	Wang, J. Y., and E. H. Adelson, Representing moving images with layers, *IEEE Trans. on Image Processing*, 1994, vol. 3, no. 5, pp. 625-638.
	A13	Wolf, J. K., A. M. Viterbi and G. S. Dixon, Finding the best set of K paths through a trellis with application to multitarget tracking, *IEEE Trans. on Aerospace & Elect. Sys.*, March 1989, vol. 25, no. 2, pp. 287-296.

EXAMINER:	DATE CONSIDERED:

*EXAMINER: Initial if any reference considered, whether or not the citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Sheet 1 of 1